National Institute of Standards and Technology

NVLAP®

National Voluntary Laboratory Accreditation Program

ISO/IEC 17025:1999
ISO 9002:1994

Scope of Accreditation

CALIBRATION LABORATORIES **NVLAP LAB CODE 200605-0**

MAHR FEDERAL INC.
1139 Eddy Street
Providence, RI 02940
Mr. John Peipock
Phone: 401-784-3292 fax: 401-784-3498
E-Mail: john.peipock@mahr.com

NVLAP Code: 20/A01 ANSI/NCSL Z540-1-1994; Part 1 Compliant

DIMENSIONAL

NVLAP Code: 20/D03
Gage Blocks

Range	*Best Uncertainty (±)*[note 1]	*Remarks*
0.50 in to 190 in	2.0 μin	
0.200 in to 0.950 in	2.2 μin	
1 in to 2 in	2.3 μin	
4 in	3.2 μin	
3 in	4.8 μin	
1 mm to 4.5 mm	50 nm	
5 mm to 23.5 mm	56 nm	
25 nm to 50 mm	58 nm	
100 mm	81 nm	
75 mm	122 nm	

March 31, 2004

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MAHR FEDERAL INC.

NVLAP Code: 20/D05
Length & Diameter - Indicators

Range in inches	*Best Uncertainty µin (±)*[note 1]	*Remarks*
Up to 0.100	21	M&TE
0.100 to 0.250	82	M&TE
0.250 to 2	82	M&TE

NVLAP Code: 20/D05
Length - Air Amplifiers

Range in inches	*Best Uncertainty in µin (±)*[note 1]	*Remarks*
0.0003 to 0.003	12	M&TE Dimensionair®

NVLAP Code: 20/D05
Length

Range in inches	*Best Uncertainty in µin (±)*[note 1]	*Remarks*
0.0003 to 0.003	13	M&TE All Mahr Federal Inc. AMR Kits

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NVLAP Code: 20/D05
Length

Range	*Best Uncertainty (±)[note 1]*	*Remarks*
<400 Arc Seconds	0.40 Arc Seconds	M&TE Electronic Levels System
0 in to 1 in	58 μin	M&TE 400 B3 & B4 Calibrators

NVLAP Code: 20/D05
Length & Diameter - Outside Micrometers

Range in inches	*Best Uncertainty μin (±)[note 1]*	*Remarks*
0 to 1	58	M&TE
1 to 2	58	M&TE
2 to 3	58	M&TE
3 to 4	58	M&TE
4 to 5	58	M&TE
5 to 6	58	M&TE

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NVLAP Code: 20/D09
Roundness

Range in inches	*Best Uncertainty in μin (±)[note 1]*	*Remarks*
.124 to 2 diameter with a roundness < 100 μin	1	

NVLAP Code: 20/D11
Spherical Diameter; Plug

Range in inches	*Best Uncertainty in μin (±)[note 1]*	*Remarks*
Up to 1	6	
1 to 2	7	
2 to 4	10	
4 to 10	(10 μin + 1L)	

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MAHR FEDERAL INC.

NVLAP Code: 20/D11
Ring Gages

Range in inches	*Best Uncertainty in μin (±)[note 1]*	*Remarks*
0.125 to 5.0	7	Mahr 828 CIM
Up to 1	6	
1 to 2	7	
2 to 4	10	
4 to 14	(10 μin + 1L)	

NVLAP Code: 20/D11
Air Rings

Range in inches	*Best Uncertainty in μin (±)[note 1]*	*Remarks*
<2	18	M&TE
2 to 4	25	M&TE

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CALIBRATION LABORATORIES **NVLAP LAB CODE 200605-0**

MAHR FEDERAL INC.

NVLAP Code: 20/D11
Air Plugs

Range in in	*Best Uncertainty in μin (±)[note 1]*	*Remarks*
<1	12	M&TE
≥1 to 2	26	M&TE
>2 to 3	28	M&TE
>3 to 4	32	M&TE
>4 to 5	33	M&TE

NVLAP Code: 20/D12
Surface Texture

Range	*Best Uncertainty in μin (±)[note 1]*	*Remarks*
20 to 300 μinRa	2	

1. Represents an expanded uncertainty using a coverage factor, k=2.

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